

User's Guide

Scandinavia 300



This household sewing machine is designed to comply with IEC/EN 60335-2-28 and UL1594

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic safety precautions should always be followed, including the following:

Read all instructions before using this household sewing machine.

DANGER - To reduce the risk of electric shock:

- A sewing machine should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning.
- Always unplug before relamping. Replace bulb with same type rated 5 Watt.

WARNING - To reduce the risk of burns, fire, electric shock, or injury to persons:

- Do not allow to be used as a toy. Close attention is necessary when this sewing machine is used by or near children or infirm persons.
- Use this sewing machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
- Never operate this sewing machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the sewing machine to the nearest authorised dealer or service center for examination, repair, electrical or mechanical adjustment.
- Never operate the sewing machine with any air openings blocked. Keep ventilation openings of the sewing machine and foot controller free from the accumulation of lint, dust, and loose cloth.
- Keep fingers away from all moving parts. Special care is required around the Sewing machine needle.
- Always use the proper needle plate. The wrong plate can cause the needle to break.
- Do not use bent needles.
- Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- Switch the sewing machine off ("0") when making any adjustment in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
- Always unplug the sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administrated.
- To disconnect, turn all controls to the off ("0") position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Hold plug when rewinding into cord reel. Do not allow plug to whip when rewinding.

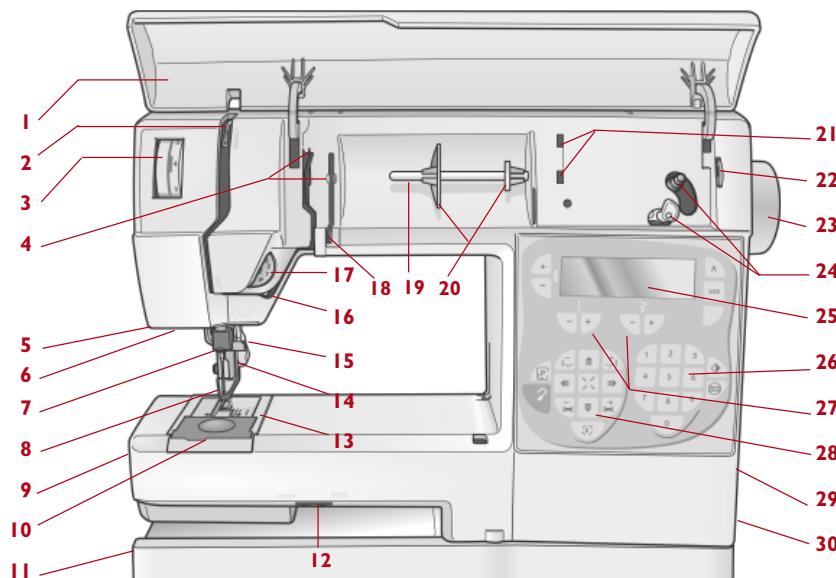
SAVE THESE INSTRUCTIONS

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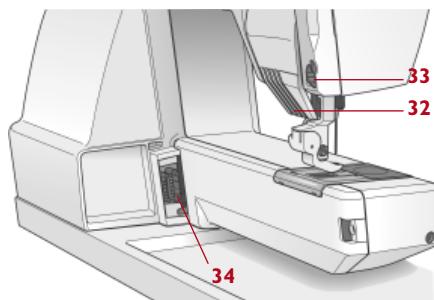
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Overview



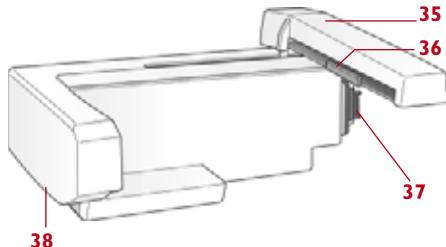
- 1. Lid
- 2. Thread take-up lever
- 3. Presser foot pressure dial
- 4. Thread guide
- 5. Buttonhole sensor socket
- 6. Light
- 7. Needle bar
- 8. Presser foot
- 9. Free arm
- 10. Bobbin cover
- 11. Base plate
- 12. Drop feed dial
- 13. Needle plate
- 14. Presser bar
- 15. Needle clamp screw
- 16. Thread tension discs
- 17. Thread tension indicator
- 18. Thread guide for bobbin winding
- 19. Spool pin
- 20. Spool holders
- 21. Recess for additional spool pin
- 22. Thread cutter for bobbin winding
- 23. Handwheel
- 24. Bobbin spindle, Bobbin stop
- 25. Infodisplay
- 26. Numeral buttons Stitch selection
- 27. Function buttons
- 28. Function buttons Embroidery
- 29. Embroidery card slot
- 30. Main power switch, Connection to power supply
- 31. Stitch panel
- 32. Presser foot lever
- 33. Thread cutter
- 34. Embroidery unit socket





Embroidery Unit

35. Embroidery arm
36. Embroidery Hoop attachment
37. Embroidery unit socket
38. Release button

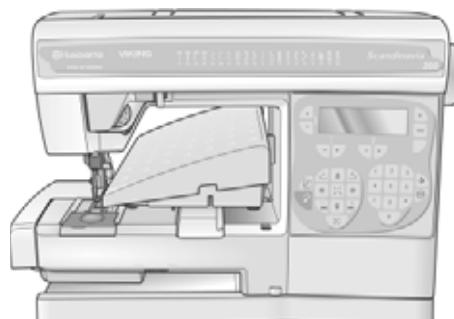


Unpacking

1. Place the machine on the table or cabinet, remove the packaging.
2. Remove the side parts of the packing material and the foot control.
3. The machine is delivered with a soft plastic cover, an accessory bag, a main cord and a foot control cord. There is also a test kit for embroidery and a bag containing embroidery accessories (see page 17).
4. Wipe the machine, particularly around the needle and needle plate to remove any soil before sewing.

Packing away after sewing

1. Unplug the cords from the wall socket and the machine. Wind the cords around your hand and place the foot control cord in the foot control storage space. Place the foot control as illustrated. Lower the presser foot. Remove the embroidery card.
2. Slide the cover over the machine. Place the main cord in the pocket of the cover. There is also space provided for the operating manual, the embroidery accessories and the other accessories.

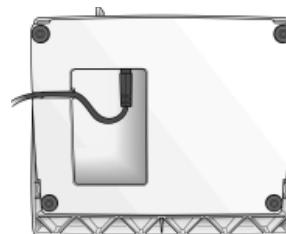
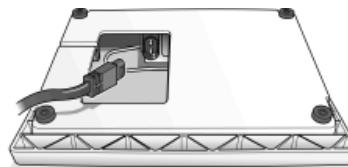




Connecting the foot control

Among the accessories you will find the foot control cord and the main cord.

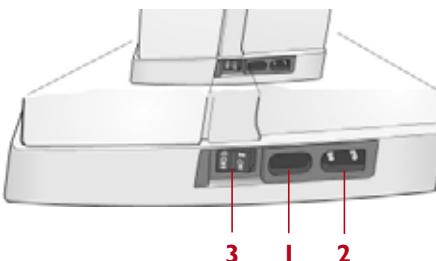
1. Place the foot control on its narrow side. Fit the plug into the socket inside the foot control compartment.
2. Push it firmly to make sure it is properly connected. This operation is only necessary the very first time you are going to use the machine.
3. To correctly guide foot control cord, place it into the slot, see picture.



Note: Before plugging in, check to ensure that the foot control is of type "FR4".

Connecting to the power supply

1. Connect the foot control cord to the first socket on the lower right side of the machine.
2. Connect the main cord to the back socket on the lower right side of the machine.
3. When you press the power switch, both the machine and the light are turned on.



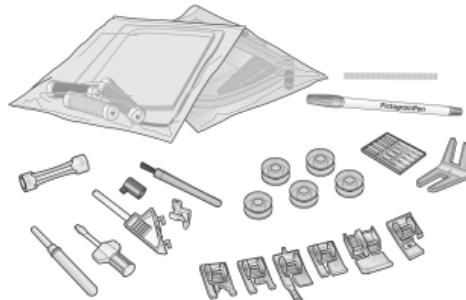
For the USA and Canada

Husqvarna Viking *Scandinavia 300* has a polarized plug (one blade wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way.



Accessories

You will find a number of accessories included with your sewing machine. Learn to use them on the following pages of this User's Guide.

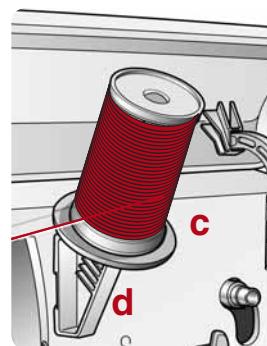
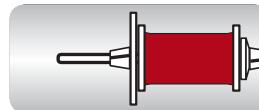
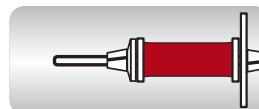
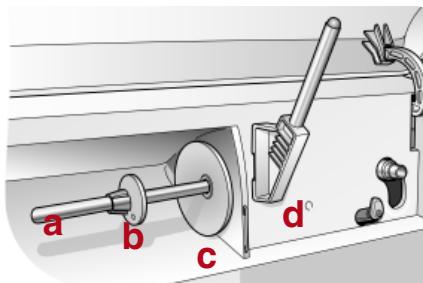


Spool pin

The machine has spool pins suitable for all types of thread. The main spool pin (a) is horizontal - the thread reels off the stationary spool. Place the spool so that the thread reels counter-clockwise.

There are two spool holders on the spool pin. With narrow thread spools, the small holder (b) is placed in front of the thread. If you use large thread spools, the large holder (c) is placed in front of the thread. Slide the correct size spool holder in place so the flat side is pressed firmly against the spool, with no space between spool holder and spool.

There is also a separate vertical spool pin (d) to be attached onto the machine. The fingers on the extra spool pin fit into the two holes to the right of the fixed spool pin. Push downward to snap in place. The large spool holder (c) is placed under the thread. This spool pin is used when winding a bobbin from a second spool of thread or for a second spool when sewing with a twin needle.



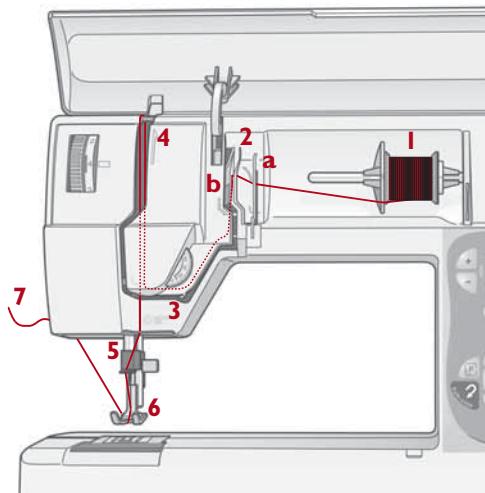


Threading the upper thread

! Turn off the main switch.

Make sure the presser foot is raised and the needle is in the up position

1. Pull the spool pin out. Place the thread on the spool pin and the spool holder on the spool pin as described. Push the spool pin back in.
2. Bring the thread in the direction of the arrow under the thread guide (a) and over the thread guide (b).
3. Bring the thread down between the thread tension discs.
4. Continue threading by drawing the thread from the right into the slot on the take-up lever.
5. Thread last guide just above needle.
6. The needle is threaded from front to back. The white on the presser foot ankle makes it easy to see the eye of the needle.
7. Place thread under the presser foot and into the thread cutter where it is cut.



Upper thread warning

If the upper thread breaks or if thread spool runs out, the machine stops and gives a signal. The symbol  is flashing on the display.

If thread breaks: Re-thread the machine. The symbol goes out. If thread spool runs out: Remove your work and the bobbin. Re-thread the machine. Replace the bobbin and restart.

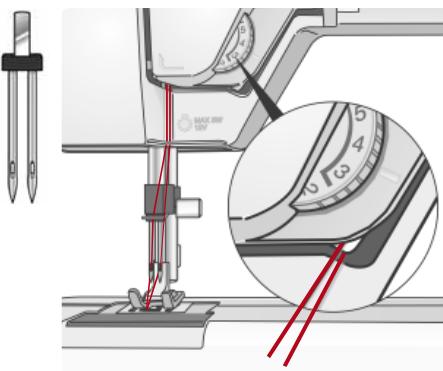


Threading for twin needle

! Turn off the main switch.

Make sure the presser foot is raised and the needle is in the up position

- 1.** Insert a twin needle (optional accessory).
- 2.** Wind a bobbin with the thread you are going to use as the second upper thread.
- 3.** Thread the machine as described and check to ensure that the thread lies between the inner thread tension discs, outside the lowest thread guide. Thread left needle.
- 4.** Attach the extra spool pin onto the machine. Place a spool holder under the thread.
- 5.** Place the bobbin with the second thread on the spool pin.
- 6.** Thread the machine as before but this thread should lie between the outer thread tension discs, outside the lowest thread guide. Thread right needle.



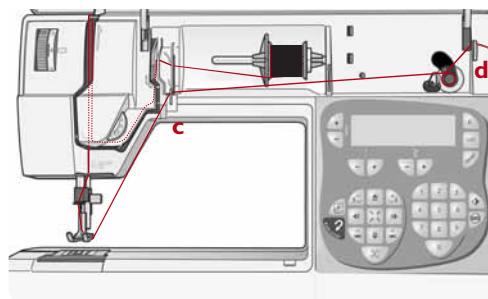


Bobbin winding from the needle

Make sure that the presser foot is up and the needle is in the highest position.

Note! Do not use a plastic presser foot when bobbin winding.

1. Place your empty bobbin with the small mark  outwards on the bobbin spindle on the front of the machine.
2. Pull the thread from the needle under the presser foot and to the right over the thread guide (c).
3. Start from above and wind a few turns of thread around the bobbin. Cut off the thread on the thread cutter(d).
4. Bring the bobbin spindle down. Press the foot control. When the

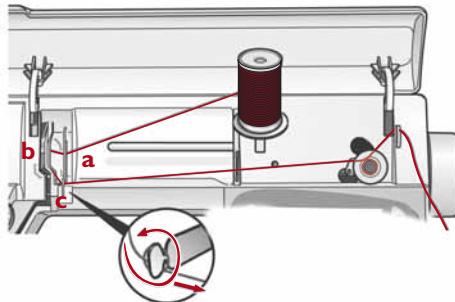


bobbin winding is finished, the bobbin will stop automatically. Remove the bobbin, cut off the thread and bring the bobbin spindle up.

Note! We do not recommend winding specialty threads such as clear nylon or other stretchy threads through the needle. Instead see "Bobbin winding - vertical spool pin" below.

Bobbin winding - vertical spool pin

1. Place an empty bobbin with the mark  outwards on the bobbin spindle on the front of the machine.
2. Place the large spool holder under the thread on the spool pin.
3. Bring the thread under the thread guide (a) and over thread guide (b), then **around** thread guide (c) as illustrated.
4. From above wind a few turns of thread around the bobbin and into the cutter.



5. Bring the bobbin spindle down. Press the foot control. When the bobbin winding is finished, the bobbin will stop automatically. Remove the bobbin, cut off the thread and bring the bobbin spindle up.

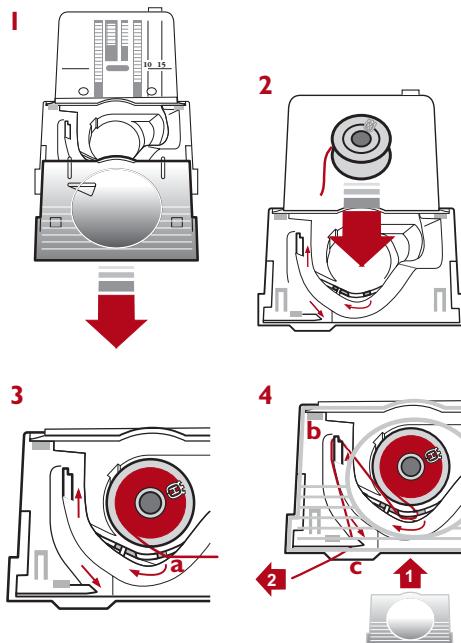


Threading lower thread

! Turn off the main switch.

1. Open the cover by slightly pulling it towards you and take it away.
2. Place the bobbin in the bobbin case with the mark  facing upward and the thread to the left of the bobbin. The bobbin will then rotate counter clockwise when pulling the thread.
3. Hold the bobbin and pull the thread to the right passing (a).
4. Hold the thread tight and pull it to the left so that the thread falls correctly into the tension spring. Continue threading around (b) and to the right of the thread cutter(c).

Replace the cover and slide it into position. Then pull the thread to the left to cut it.





Thread tension

The thread tension is adjusted automatically when you select a stitch or an embroidery. This is shown by the thread tension indicator being reset. Do not turn this dial manually

 You can adjust the thread tension by pressing the buttons, see page 14. Using the button (-) you decrease the tension and using the button (+) you increase the tension. The adjustment affects all stitches and will remain until the machine is turned off or until changed manually.

Normal thread tension is 4.

When selecting buttonholes and decorative stitches the thread tension is reduced.



When topstitching with a heavy thread in thick fabric, increase the tension to 7-9.

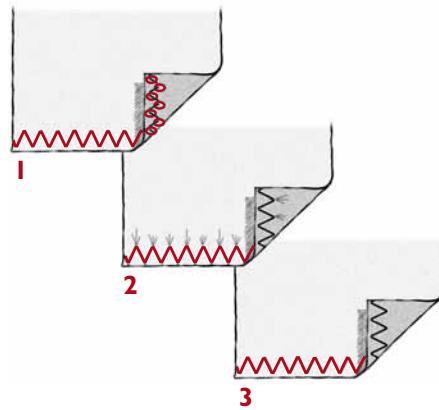
When the machine is turned on, the tension is set to normal automatically.

Correct and incorrect thread tension

To understand the correct thread tension, sew a few sample stitches at different settings.

Adjust tension only with the function buttons (see page 14). Do not turn dial.

1. Begin with a tension that is too loose, i.e. set at "1". The lower thread will lie straight and the upper thread will be drawn down on the underside.
2. If you set the tension at the highest number, the opposite will occur, and the seam may pucker.
3. When thread tension is correctly set the threads interlock in the middle of both layers of material



or, in the case of decorative stitches, on the underside.

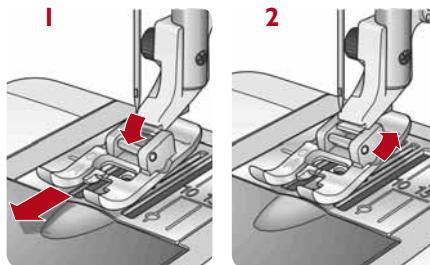
Note! Make a few tests on a scrap piece of the material you are going to sew and check the tension.



Changing the presser foot

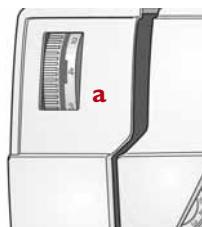
! Turn off the main switch.

1. Make sure that the needle is in the highest position. Pull the presser foot down and towards you.
2. Line up the cross pin on the foot between the spring and the presser foot ankle. Press back until the foot snaps into place.



Presser foot pressure (a)

The presser foot pressure is adjusted with the dial on the front of the machine. Normal setting is 4. The higher the number the more pressure on the fabric. Knit and Soft fabrics should be sewn with less pressure, 3-2.



Presser foot lever (b)

The presser foot is raised and lowered with the presser foot lever. The presser foot must be lowered when sewing. The machine will not start if the presser foot is in the raised position.

By raising the presser foot lever as far as it goes and holding it there, the lift height of the presser foot can be increased to place thick fabric and slide on or remove hoop.

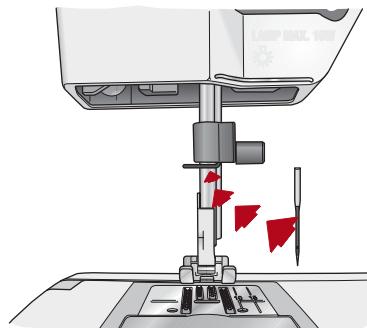




Changing the needle

⚠ Turn off the main switch.

1. Loosen the screw in the needle clamp.
2. Remove the needle.
3. Push up the new needle with the flat side away from you until it will go no further.
4. Tighten the screw properly.



Always use needles of system 130/705H.

Lowering the feed teeth

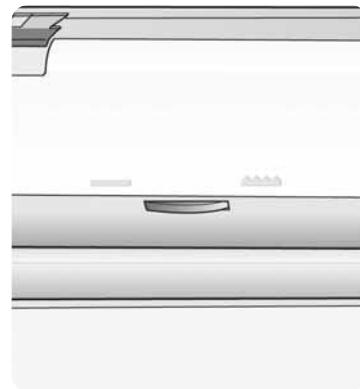
The feed teeth are lowered automatically when the embroidery unit is in place.

When removing the embroidery unit, the feed teeth will raise as you start to sew.

The feed teeth are lowered when you turn the dial to the left to . Turn the dial to the right to  if you wish to raise the feed teeth. The feed teeth will not come up until you begin to sew.

Lower the feed teeth for sewing buttons and for free motion quilting and embroidery.

By lowering the feed teeth it is easier to get thick garments under the presser foot. Do not forget to raise the feed teeth before starting to sew.



FUNCTIONS AND INFODISPLAY





Functions and Infodisplay



1. Thread tension - adjustment

 Use these buttons to adjust the thread tension manually. The adjustment affects all stitches and will remain until the machine is turned off or until reset manually.

2. Stitch length

 When you select a stitch, the machine will automatically set the best stitch length which will be indicated by numbers on the Infodisplay. You can change the stitch length by pressing either the (+) or (-) button. Certain stitches have a limited stitch length.

 When sewing embroideries the length can be set between 2 and 6 to change size of embroidery.

3. Needle stop recommendation

 This symbol shows the normal stop position of the needle, up. You regulate the needle stop position with the foot control. To raise or lower the needle after stopping, lightly tap the foot control.

 When sewing embroideries only the up position can be used.

4. Sewing speed

 This symbol shows the sewing speed for the actual stitch/embroidery.

All stitches in the machine have a pre-set maximum speed at which they can be sewn. When you select a stitch the machine automatically sets the correct maximum speed.



5. Stitch width

 When you select a stitch, the machine automatically sets the best stitch width which is displayed with numbers on the Infodisplay. You can change the stitch width by pressing the (+) or (-) button. The width can be adjusted between 0 and 6 mm.

 When sewing embroideries the width can be set between 2 and 6, to change size of embroidery.

6. Reverse

 Your machine sews backwards when this button is pressed. The machine sews forward when the button is released. The longest stitch length when reverse feeding is 3 mm.

For permanent reverse, press the button twice in quick succession before starting to sew. An arrow  to the top left on the display indicates reverse sewing. To sew forward again, press the button once more.

 The reverse button is also used when starting and stopping embroidery. (The foot control can also be used).

7. STOP

 The **STOP** button is used to finish a stitch. i.e. the machine fastens the thread and stops automatically when the stitch has been completed. The symbol  on the display indicates that **STOP** is selected. **STOP** is cancelled when you press the button again or select a new stitch.

(See "Satin taper...", page 45.)



For Embroidery sewing without thread color change stops, see page 27.

8. Mirror image

You can mirror a stitch by using the button  , mirror image side to side. The symbol  will be displayed.

9. Stitch/Embroidery selection

The machine has one row of stitches shown on the front of the lid. To select a stitch or an embroidery, touch the numeral buttons - for example 1, 2 to select stitch or embroidery number 12.

10. Recommended presser foot

The letter shows which presser foot is correct for the stitch you have selected. The corresponding letter is found on the presser foot.

11. Embroidery

Refer to pages 19-30

11. Sewing - Optional - Sensor buttonhole foot

When you plug the optional Sensor Buttonhole Foot into the socket on the machine near the light, and place the white field of the measurement wheel against the white mark, the symbol  will be shown brightly on the display.



Optional Accessories - Letters



As an optional accessory an embroidery card containing three different font styles are available. These buttons are used with this embroidery card. Read more about these buttons on page 17.



Functions / Embroidery

Positioning

 These buttons allow you to move the embroidery in four directions.

Rotation

 Touch this button once and your embroidery will rotate a quarter of a turn.

Stitch advance

 These buttons allow you to step stitch by stitch forward (+) or backward (-) within your embroidery.

Color advance

 Many of the embroideries have color changes. These buttons allow you to step forward (+) or backward (-) to the beginning of each thread color change.

Check size

 This button allow you to step from one corner to another within your embroidery to check the finished size of your design.

 When your embroidery is finished, touch this button.

The embroidery arm returns to parking position. The embroidery unit can now be removed. Read more about embroidery sewing on page 19-30.





Optional Embroidery Cards

The buttons to the right of the Infodisplay - **A**, **SIZE** and **MENU** can only be activated with Embroidery Card No 21 which is sold separately. This card contains three alphabet styles- Palace Script, Clarendon and Kalligraphia. An Embroidery Booklet showing all the alphabet styles, sizes and menus is included with the card.



This button is used to select the alphabet style:

- 1** Palace Script
- 2** Clarendon
- 3** Kalligraphia



This button selects the size of the letters - **1** 30 mm,
2 12 mm.

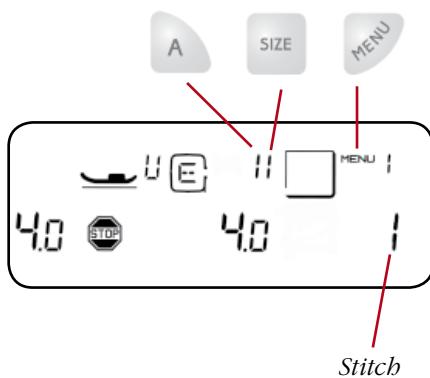


This button selects between **1** upper case letters - ABC....,
2 lower case letters - abc... or **3** numbers - 123... and special characters.

There are also Optional Embroidery Cards with more than one menu available.

Embroidery

The Embroidery accessory bag contains embroidery hoop, embroidery booklet, embroidery template, template pencil, embroidery card, a pair of scissors, thread and a test kit.





Some fabrics have excess dye which can cause discoloration on other fabric but also on your sewing machine. This discoloring may be very difficult or impossible to remove.

Fleece and denim fabric in especially red and blue often contain a lot of excess dye.

If you suspect that your fabric/ready-to-wear garment contains a lot of excess dye, always pre-wash it before sewing/embroidering to avoid the discoloring.

EMBROIDERY

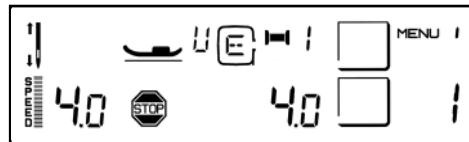




Get started

1. Insert the embroidery card (Scandinavia 300 Sampler) into the slot on the right side of the machine. To remove the card, pull it straight out.
2. Turn the machine on. If the presser foot is in lower position the symbol  is flashing on the Infodisplay. When raising the presser foot, the machine calibrates. If the needle is in its down position it will automatically go to up position. The embroidery unit will take the ready position.
3. When you have finished your

embroidery, touch . The arm returns to park position. Turn off the machine.

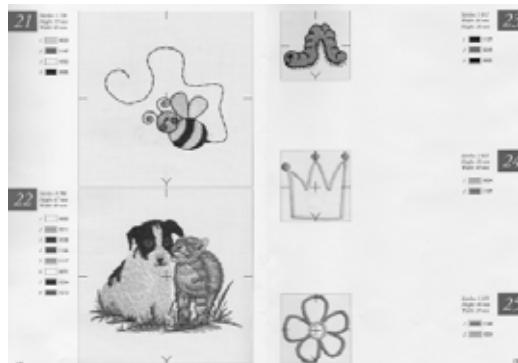


Scandinavia 300 Sampler - Embroidery Booklet

The embroideries are pictured in actual size in the Embroidery Booklet. Each embroidery is placed in a square where the center of each side is marked and a cross marks the center point of the design.

You will also see how each embroidery is placed related to the center point of your sewing space.

The row of thread spools next to the embroideries shows the number of thread color changes, suggested colors, and the order of changes.





Thread

Thread the needle with 40 wt rayon embroidery thread. When reducing the size of the embroidery we recommend a finer thread, 60 wt. When enlarging, we recommend a thicker thread, 30 wt.

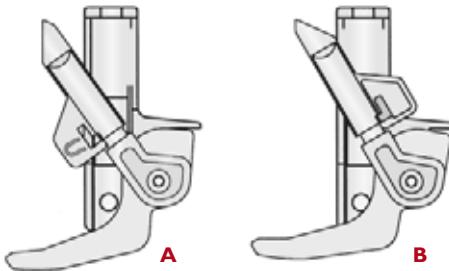
Place the net over the thread spool, especially when using Rayon thread. Use a very fine thread as bobbin thread. There is a special embroidery bobbin thread available.

Embroidery presser foot U

Embroidery: The lever on the arm of the presser foot should be downward (A). The mark U on the lever corresponds to the symbol  on the display.

Quilting or embroidering thick fabrics:

Quilting or embroidering thick fabrics: Turn the lever upward (B) to allow more clearance between the foot and the fabric.





Attach the Embroidery Foot U

 Turn off the main switch.

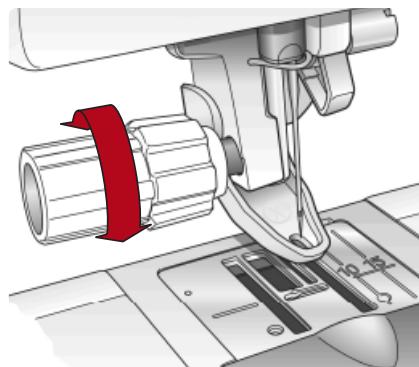
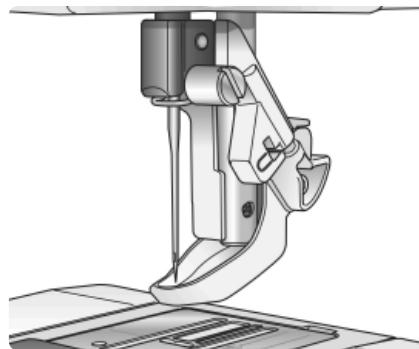
Raise the presser foot lever and remove the presser foot.

Use the Screw Grip to loosen the screw on the presser foot ankle. Remove the ankle.

Place the Embroidery Foot U, from behind onto the presser foot bar. The arm of the presser foot should rest on top of the needle clamp screw. Use the hand wheel to lower the needle slightly until the foot slides in place.

Position the foot so that the hole on the foot matches the hole on the presser foot bar.

Insert the screw and tighten the screw with the Screw Grip.





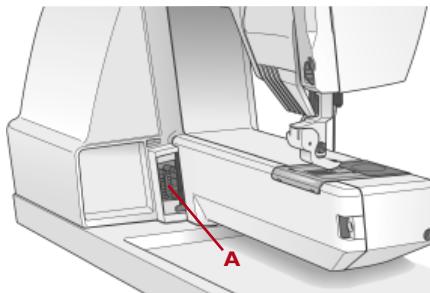
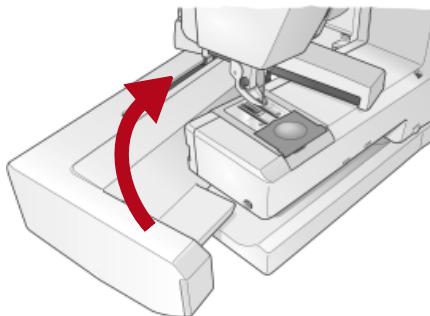
Connecting the Embroidery unit

! Turn off the main switch.

Slide the arm of the embroidery unit to the right of the needle and the presser bar and push the unit to the right until it plugs into the socket (A).

Turn on the machine to calibrate.

The embroidery unit is now ready. The feed teeth are lowered automatically.



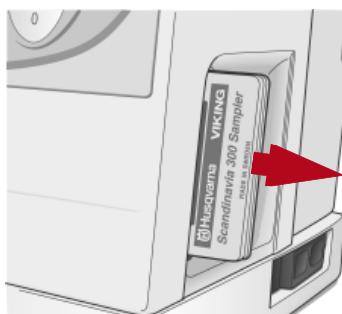
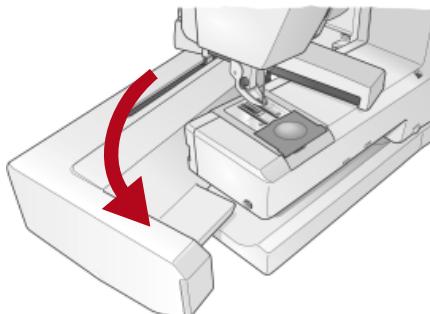
Removing the Embroidery unit

Touch  to move embroidery arm to park position.

! Turn off the main switch.

Make sure the machine is turned off while removing the embroidery unit. Press the release button at the center of the left side on the underside of the unit and slide it off.

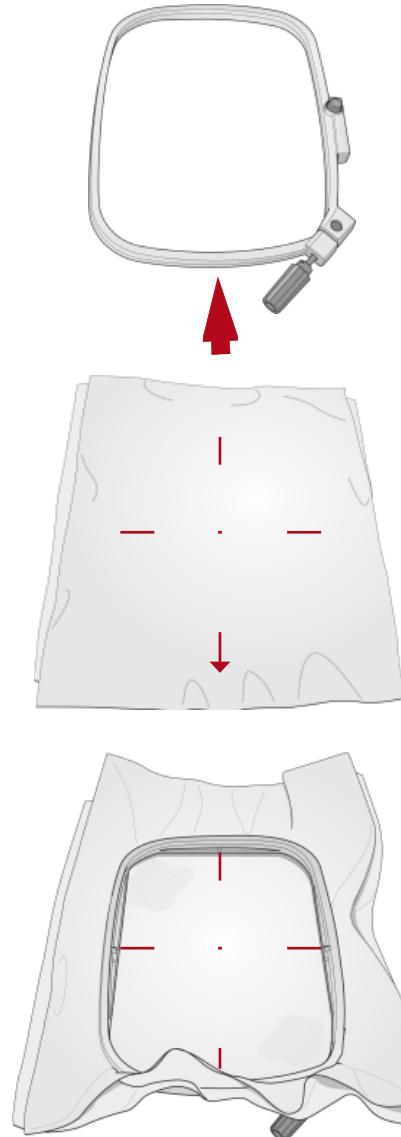
Remove the embroidery card.





Embroidery hoop

1. Loosen the screw on the outer hoop, place the outer hoop so that the screw is down to the right.
2. At the front edge of the hoop there is an arrow.
3. A corresponding arrow is located on the inner hoop as well as center marks in the two directions. You should take notice of the back marks. Trace design on template with pencil.
4. Place the embroidery template on your fabric. Use the Pictogram™ pen to mark within the grooves and in the center.
5. Place the inner hoop, the marks matching the ones on the fabric. Side marks should line up with the top marks on the sides of the hoop. We recommend using a tear-away stabilizer in the hoop under the fabric. Press hoop, fabric and stabilizer down, into the outer hoop and tighten the screw. The arrows of the outer and the inner hoops should both be at the bottom.
6. Slide the hoop under the presser lift lever to take advantage of the extra lift of the presser foot. Slide hoop from the front onto the embroidery arm.
Note: Always sew a sample Embroidery on a scrap of the same fabric you will embroider.
7. When embroidery is completed, raise the presser foot before removing the embroidery hoop from the machine. Press the purple button located to the right on the hoop and pull the hoop towards you.



Note: Always touch  before you turn off the machine. Otherwise the embroidery arm will not come to the park position to remove the unit from the machine.



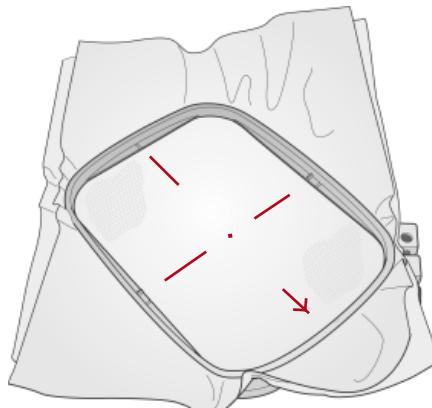
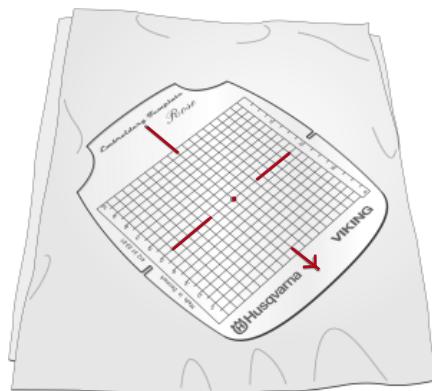
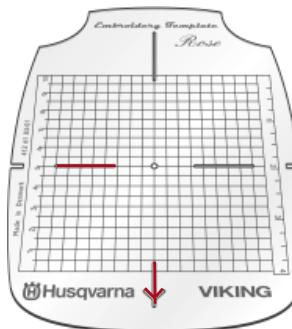
Using the Embroidery template

When you wish to sew the embroidery at a specific place on your fabric or garment, you can take advantage of the embroidery template to mark where the embroidery is to be sewn. In the Embroidery Booklet you will find all the embroideries pictured in actual size.

1. Place the template with the arrow pointing downward and matching the other marks. Draw the outer lines of your selected embroidery on the template using the template pencil. The markings can later be removed with an eraser.
2. Place the template on your fabric where you wish to sew the embroidery.
3. Draw marks on the fabric in the four grooves and in the center with your Pictogram™ pen.
4. Place the embroidery hoop matching the arrow pointing downward to the arrow mark on the fabric. Insert the fabric into the hoop, see "Embroidery hoop", page 24.

Make final adjustments using the

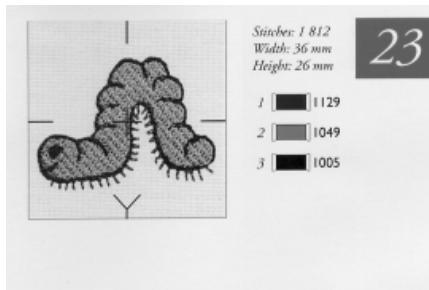
positioning buttons until the needle will start at the center.





Sewing embroideries

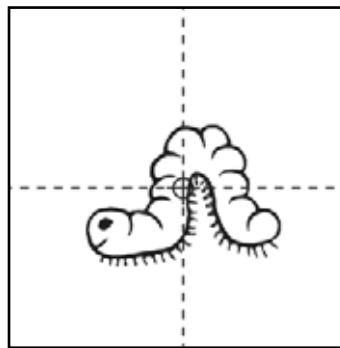
1. Place the enclosed net over the thread spool. Thread the machine with embroidery thread as upper thread. In this case you need not place thread under the presser foot. Use a fine thread as bobbin thread.
2. Thread the bobbin thread according to "Threading lower thread" on page 9 and check to be sure the thread lies under the tension spring. Cut the thread at the thread cutter. **Hint:** Slide bobbin cover on, then cut thread. Always check there is enough bobbin thread before starting a new embroidery.
3. Insert the embroidery card. The symbol  flashing on the Infodisplay indicates if the embroidery card is not inserted or not inserted all the way.
4. Select desired embroidery motif from the Embroidery booklet. Each embroidery has a number. The buttons 1-0 are used to select embroideries, for example, to select embroidery number 20 touch 2, 0.



Select the number of the desired embroidery on the stitch panel.

5. Start sewing by touching the button  or by pressing the foot control. Hold the thread tails when starting.

The machine always starts from the center of the embroidery area, makes a jump stitch up to the beginning of the embroidery, sews a few stitches, gives a "beep" and stops. A pair of scissors  flashing on the Infodisplay indicates that you can cut the starting thread tail.



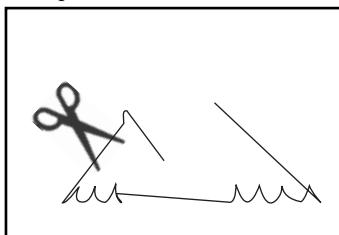
6. Touch the button  and the machine sews the rest of the embroidery or up to next thread color change.

Note: Be careful when working within the needle and presser foot area to avoid touching the start/stop button or the foot control by mistake.



7. The machine stops automatically when it is time to change thread color. The Infodisplay indicates which thread color change you have reached by a flashing number next to the thread spool . A flashing number indicates the first stitch of the "new" thread color. The number stops flashing when you begin to sew.

8. Once thread is changed, start sewing again. The machine stops for cutting the thread tail and at the next thread color change etc, until the embroidery is completed.



During the stitching, as the embroidery hoop moves to different places within the embroidery, jump stitches are sewn. Trim these stitches as you sew, i.e. when the machine stops for thread color change.

In most cases the embroidery is sewn over the jump stitches, but in some cases a part of the thread can be visible and difficult to trim later.

If the upper thread breaks while sewing, the machine stops and gives a signal. The symbol is flashing on the display. Rethread the machine.

Go back a few stitches using the button and restart. The symbol goes out.

The machine also stops when the thread spool runs out. When this occurs, simply re-thread the top thread. Go back a few stitches past the point where the spool thread ran out, using the button. Re-start and the embroidery will be completed.

If the bobbin thread runs out, touch to move the hoop and give enough space around the bobbin area to change the bobbin. Wind and replace the bobbin. Touch again and the hoop moves back to where you stopped embroidering. Go back a few stitches using the button. Re-start and the embroidery will be completed.

At any time during the embroidery stitching, check how much bobbin thread is left, touch . The embroidery arm goes to park position. Touch to move the embroidery arm back to stitch position and pull any excess upper thread back.

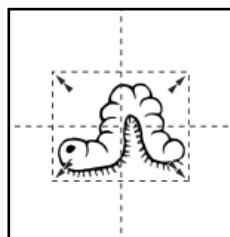
Hint: When bobbin winding with the embroidery unit connected, thread the machine as described at page 8 - "Bobbin winding direct".

Then touch (RUN/STOP). The bobbin will stop automatically when bobbin winding is finished.



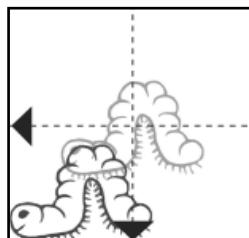
Function buttons - embroidery

 The check size button allows you to step from one corner to another within your embroidery, so that you will know the size of the embroidery and where on your fabric it will be placed.

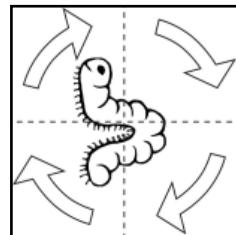


All embroideries begin from the center. The sewing space within the embroidery hoop is 100 mm x 100 mm (approx. 4" x 4").

 These positioning buttons allow you to move the embroidery in four directions. The limit in each direction is indicated by a "beep" and the symbol  flashing on the display.

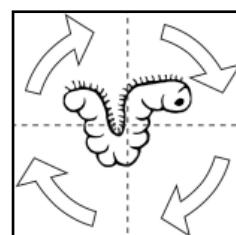


Touch this button once and your embroidery will rotate a quarter of a turn.



Touch the button twice and your embroidery will be sewn *upside-down*.

Watch the Infodisplay to see how the symbol  has been rotated after each touch on the button.





These buttons allow you to step *stitch by stitch* through your embroidery, e.g. if thread has run out or broken, you can step back a few stitches.



Most of the embroideries include several colors. These buttons allow you to step *forward* (+) or *backward* (-) to the beginning of each thread color change. On the Infodisplay the number next to the thread spool will flash to indicate the start of each thread color change.

One color embroidery

Touch **STOP** and all stops for thread color change will be cancelled. The machine sews the entire embroidery without stopping.

Embroideries using several menus (optional)

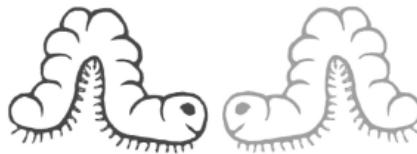
If you have an embroidery card including 2 or 3 menus you can change menu by touching the **MENU** button.

Change to desired menu, then enter the embroidery number.



Mirror image embroideries

You can mirror image the embroidery side to side . The symbol  is shown on the display.



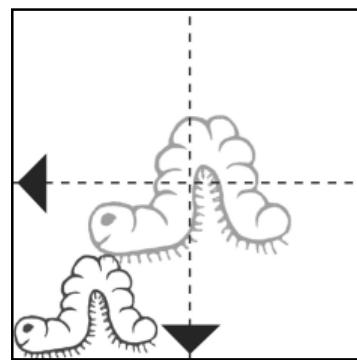
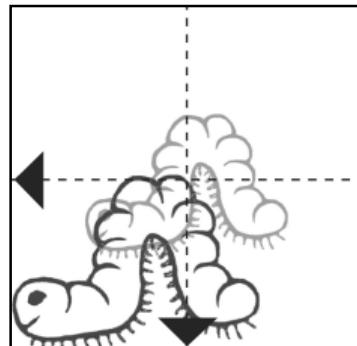
Enlarging and reducing embroideries

You can make the embroidery designs larger and smaller with the stitch length and stitch width buttons between 2 and 6 maximum. The size changes are individually limited for each embroidery design.

When enlarging or reducing the embroidery we recommend changing the thread thickness for the best result, see "Thread", page 21.

A "beep" indicates when a limit is reached. You can change stitch width and stitch length independently.

Change the size before moving from the center position. If the embroidery is moved first the size change may be limited by the design reaching the edge of the 100 x 100 mm area.



After finishing the embroidery

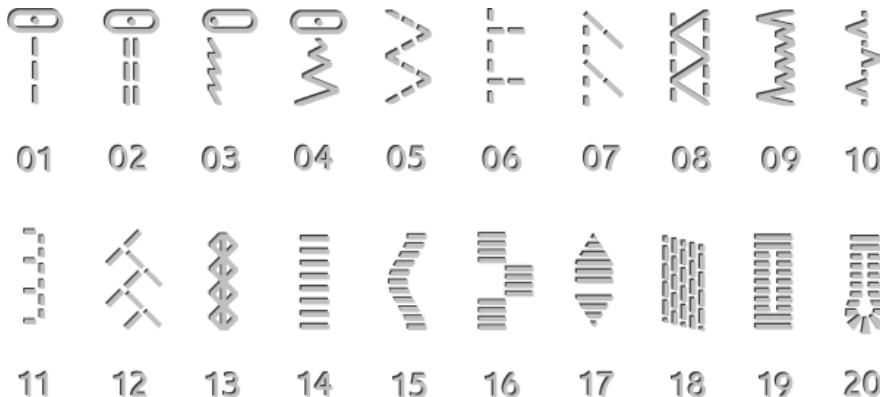
1. Remove the embroidery hoop by pressing the purple button to the right on the hoop. Pull the hoop toward you.
2. Touch  and the embroidery arm returns to park position. Remove the embroidery unit from the machine by pushing the release button on the center left underside, after turning the machine off (see page 23).

SEWING





Utility sewing / Stitch selection



When you turn on the machine without having the embroidery unit connected, it always selects straight stitch and the number **1** as well as  is displayed.

The machine has one row of stitches shown on the front of the lid.

To select a stitch or an embroidery, touch the numeral buttons - for example to select stitch/embroidery number 12 - touch 1, 2.

To the very right on the Infodisplay the number of the selected stitch is displayed.



Stitch table

01 Straight stitch

For all kind of sewing in woven fabrics, 25 different needle positions

02 Reinforced straight stitch

For seams which are subject to considerable strain, i.e. to reinforce and topstitch sportswear and work clothes. 25 needle positions.

03 Stretch stitch

For seams in tricot and stretch fabrics

04 Zigzag

For lace edging and sewing on braids

05 Three-step zigzag

For overcasting, mending, sewing on patches and elastics

06 Seam and overcast stitch

Seam and overcast in one step along the edge or trim later. For light stretch and non-stretch fabrics.

07 Overlock

Seam and overcast in one step along the edge or trim later. For medium and heavy stretch fabrics

08 Flatlock

Decorative hems and overlapped seams, belts and bands

09 Blind hem

Invisible hems in stretch or woven medium and heavy fabrics

10 Bridging stitch

For joining two pieces of fabric with finished edges and for elastic shirring

11 Hand look Appliqué stitch

Hand look appliqué stitching

12 Feather stitch

Decorative stitching and for quilting

13 Hemstitch

For hemstitching, use a wing needle (optional)

14 Satin stitch

For appliqués, sewing on laces and bands

15 Decorative edging

For decorative edges. Sew 15 mm from the edge and trim close to the stitching.

16 Decorative stitch

For decorating clothes, tablecloths and curtains

17 Tapered satin stitch

Automatic tapering for sewing monograms and other decorations

18 Darning stitch

Darn and mend work clothes, jeans, tablecloths and linen towels

19 Bartack Buttonhole

Suitable for medium and heavy fabrics

20 Keyhole buttonhole

For tailored garments suitable for wool.



Buttonholes

You can select different buttonhole styles.

Buttonhole  the bartack buttonhole, used for medium and heavy fabrics.

Buttonhole  keyhole buttonhole for tailored garments.

When sewing stretch fabrics, use a fusible stabilizer or a cord.

The buttonhole foot has guide lines to determine buttonhole length.

Place the button on the presser foot against the needle and you will be able to see which mark on the foot corresponds to the button. You will sew until the first buttonhole column reaches this mark.

 There is a small finger at the back of the presser foot. For a corded buttonhole, loop your cord around the finger as illustrated.

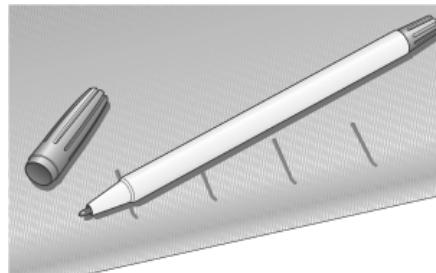
For better visibility the machine sews buttonholes away from you.

NOTE: Always stitch a sample buttonhole on scraps of the garment fabric to check size before sewing buttonholes on the garment.

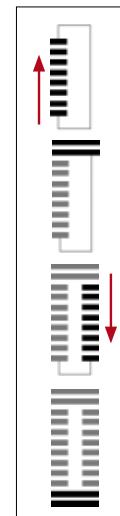
NOTE: Purchase the optional sensor buttonhole foot to sew 1-step buttonhole



1. Select a buttonhole.
2. Snap on the presser foot C.
3. Mark the buttonhole location on your fabric.



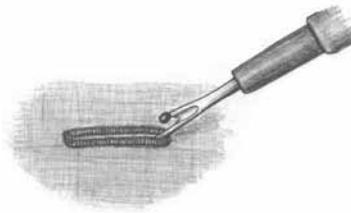
4. Place the material in the machine and begin at the bottom of the buttonhole.
5. Sew the first column of the buttonhole to the required length, use the markings.
6. Touch the reverse button .
7. Continue to sew the buttonhole until the other column is the same length as the first, touch the button again.
8. The machine will bartack the other end, make a few tie off stitches in the first column of the buttonhole and then stop.





Buttonhole knife/ Seam ripper

The knife is used to cut buttonholes. It is also useful for removing stitches sewn in error.



Sewing buttons

1. Mark the button placement on the fabric.
2. Select zigzag .
3. Lower the feed teeth with the dial. See page 12.
4. Snap off the presser foot.
5. Place the fabric under the presser foot ankle.
6. Place the button on marking and lower the presser bar so that the presser foot ankle is between the holes of the button (see picture).
7. Hold the thread ends to one side. Turn the handwheel and check to be sure that the needle goes into the left hole of the button.

8. Touch the mirror image button  to check that the needle also goes into the right hole.
9. Sew as many stitches as you consider necessary.
10. Touch **STOP**. The machine will then tie off in one of the holes and stop.
11. Touch **STOP** to cancel it. Move to the next pair of holes or the next button.

If you have a button with a different hole spacing, you can adjust this by pressing one of the stitch width buttons (+) or (-).

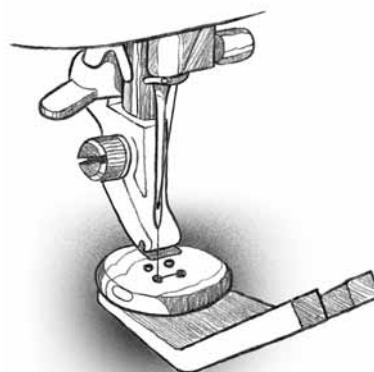
Button with a thread shank

Use the clearance plate for this purpose. Use the thin end when sewing buttons on light fabrics, the thick end for heavier fabrics.

Place the plate between the button and the fabric. Lower the presser bar and sew on the button.

Pull the threads between the button and the fabric.

Wind the threads a few times around the thread shank and tie the ends.





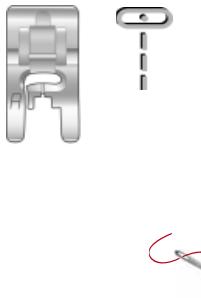
Straight stitch

Straight stitching  is used to join fabric which does not stretch and for seams which will not be subjected to great strain.

When you select straight stitch the machine will automatically set the average stitch length.

You can adjust stitch length for your project.

Example: Increase the stitch length when basting and when topstitching.

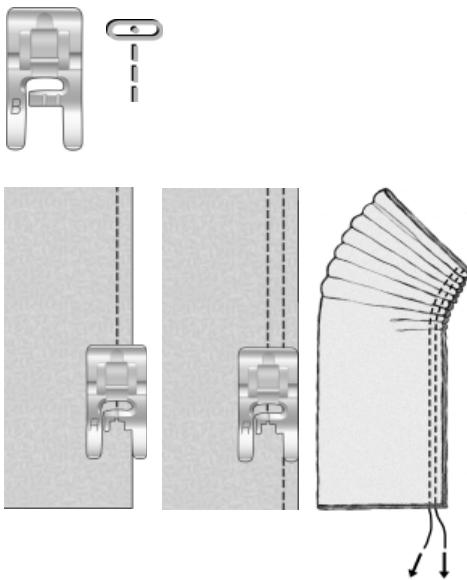


Straight stitch can also be used for topstitching. For a more visible topstitch, lengthen the stitch and use heavier thread with larger size needle.

Gathering with straight stitch

Use a slightly longer stitch than normal straight stitch, 3.5-5.0. Always sew two gathering threads next to each other.

- Place a single thickness of fabric under the presser foot and stitch.
- Stitch a second row next to the first.
- Pull both bobbin threads to gather fabric. Be careful not to pull them out.





25 Needle Positions

When topstitching using straight stitch and reinforced straight stitch, the needle position can be adjusted in steps. Use the stitch width button (+), 0 is the center position, width 6 is left needle position, width 6 mirror

imaged is right needle position. To return to center position, use the stitch width button (-) and step back to 0. Adjust the width between 0-6 for additional positions.

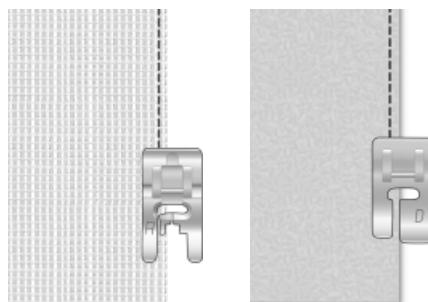
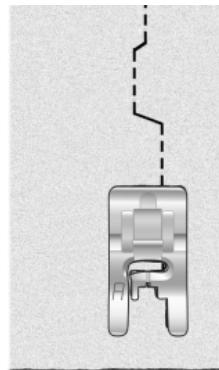
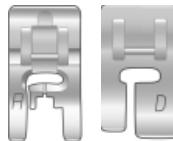
To edge stitch, set the needle to the left or the right position.

To sew about 2 mm from the edge, snap on presser foot A when sewing light fabrics and presser foot D for other fabrics.

Select left needle position, place the fabric and sew so that the edge follows the inside right edge of the presser foot D or the first mark of the left edge of the presser foot A.

If you wish to sew about 5 mm from the edge or sew a narrow hem, use presser foot A and set the needle to the right position.

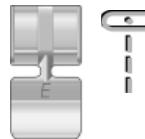
Place the edge of the fabric so that it follows the outside right edge of the presser foot and sew.





Sewing zippers

The zipper foot E can be snapped on either to the right or to the left of the needle, making it easy to sew both sides of the zipper.

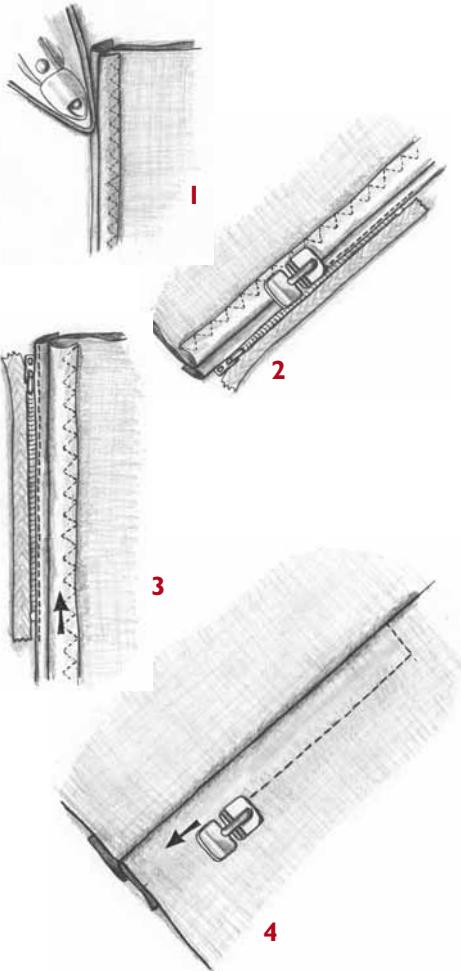


Lapped zipper

1. Sew the seam to the bottom of the zipper placket. Baste the rest of the seam. Leave about 2 cm open at the top. Press seam open.

Set the needle to the right position.

2. Place presser foot E to the left of the needle. From the wrong side fold the fabric to one side so both seam allowances are free. Fold and press the left allowance under approximately 0.5 cm from the basted seam.



3. Place the zipper under the folded seam allowance with the teeth as near to the fold as possible and stitch zipper to fabric close to fold. Begin sewing at the bottom of the zipper. Before reaching the zipper pull, lift the presser foot and slide the zipper pull down past the zipper foot. Lower the foot and sew to the top of the zipper.

4. Snap on the zipper foot so it is to the right of the needle. **Set the needle to the left position.** Turn the garment to the right side. It is important that the seam on the right side is sewn straight. Before you begin to sew, mark the seam line. Sew the other side of the zipper.

Begin stitching across the bottom and continue upwards. Remove the basting.

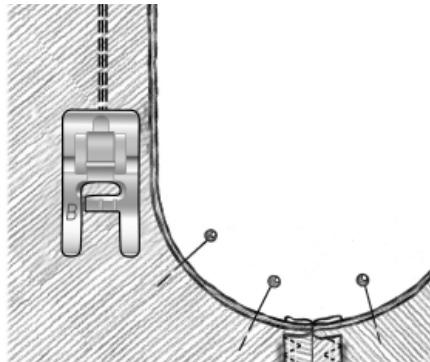
If you want to sew a "gentleman's zipper", follow the instructions but insert in the other direction.



Reinforced straight stitch

The reinforced straight stitch  is stronger than ordinary straight stitch, due to the fact that it is a triple and elastic stitch.

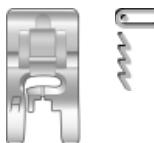
The reinforced straight stitch can be used for heavy stretch fabrics, for crotch seams which are subject to considerable strain and for topstitching in heavy fabrics.



Stretch stitch

The stretch stitch  makes a pliable, stretchy seam that is suitable for sewing together pieces of light stretch fabric.

The stretch stitch is ideal for topstitching in light stretch fabrics.



Zigzag

The zigzag  is utilized for sewing on lace, bound edging and appliqués.

When you select the zigzag the machine will automatically set stitch length 2 and width 3.



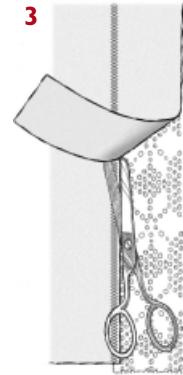
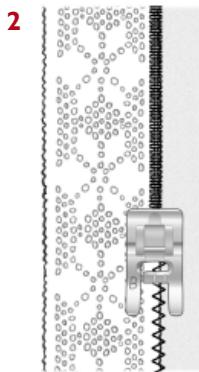
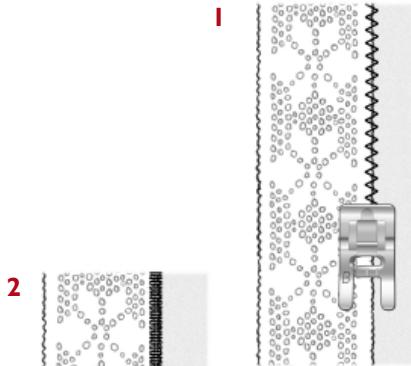
You can change this setting by pressing either the (+) or (-) button on the width and/or length.

Experiment until you reach the best setting for your project.



Lace edging

1. Place wrong side of lace to right side of fabric matching edges. Sew along inner edge of lace with zigzag,  stitch length 1.5, stitch width 1.5.
2. Press seam allowance towards  fabric. Sew with satin stitch  , stitch width 2.0, on the right side over the zigzag seam.
3. Cut off the seam allowance up to the stitching on the wrong side.





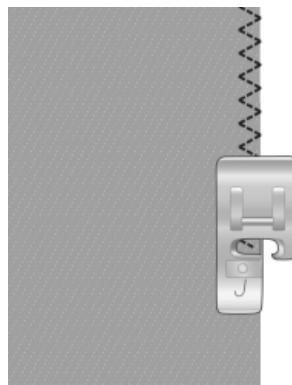
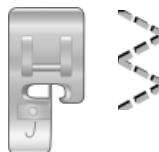
Three-step zigzag

Overcasting

Three-step zigzag is suitable for overcasting most fabrics. Trim the edges of the fabric before overcasting.

Make sure that the needle sews over the edge of the fabric. (see picture).

Snap on presser foot J so the stitch sews over the pin on the foot. This keeps the fabric edge flat.



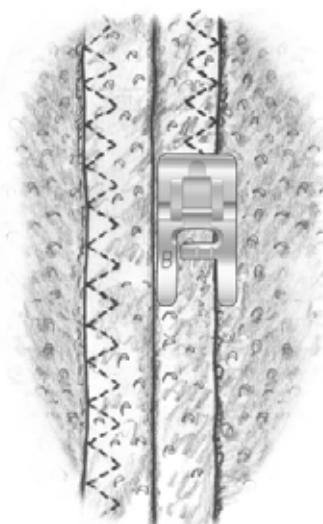
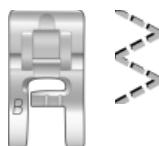
Sewing terry cloth

Terry cloth is a rather loosely woven fabric.

Sew the garment together with straight stitch. Trim the seams and press the seam allowance flat and sew the edges down against the garment on the wrong side with three-step zig-zag.

Even though the stitching goes right through to the "right" side of the garment, it is nearly invisible and even the wrong side looks neat. The stitching will also be considerably stronger.

Necklines and armholes are finished in a similar way.





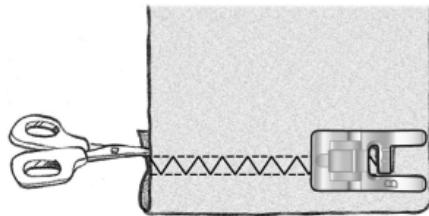
Flatlock

The flatlock , is suitable for sewing overlapped seams and decorative hems. Reduce the pressure foot pressure to 2 when sewing stretch fabric.



You can produce a decorative hem by folding a single hem to the wrong side and sewing the flatlock from the right side.

Trim excess hem to stitching from the wrong side.



To sew an overlapped seam, lap one piece of fabric over the other piece and sew flatlock stitch over the fabric edge on the right side.

Trim from the wrong side or sew another seam from the right side.

Narrow belts and bands

Fold the fabric in thirds and sew in the center. Trim excess material from underneath.

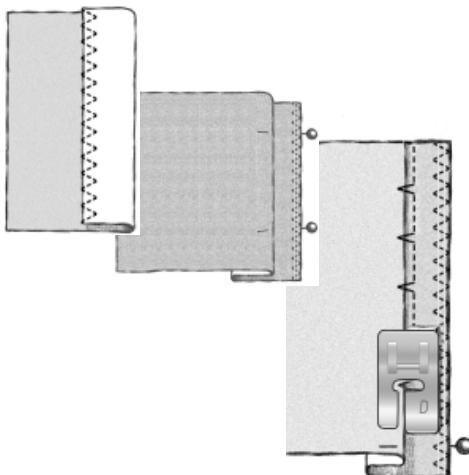
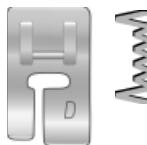




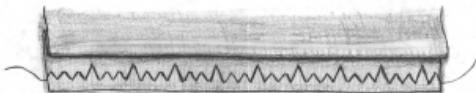
Blind hem

Snap on presser foot D for blind hem.

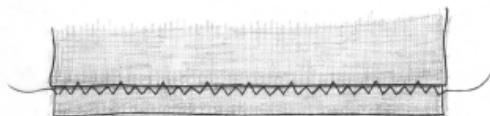
Fold the hem as shown. Make sure that the fold line of the fabric rides in the groove on the underside of the presser foot.



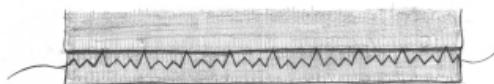
If the stitch does not catch the folded edge, increase the stitch width (+).



If the stitch catches too much of the fold, decrease the stitch width (-).



For an invisible hem the needle catches a single thread of the folded edge.





Bridging stitch

The bridging stitch  is suitable for joining two pieces of fabric with finished edges.

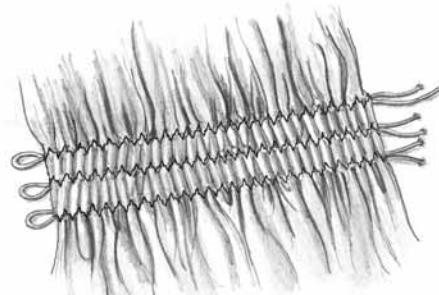
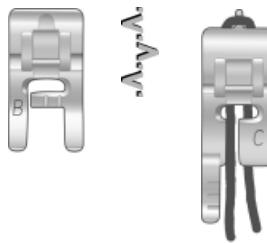
Leather and vinyl are joined by butting the edges close to each other using the bridging stitch. Also use to join lace and ribbon.

Elastic shirring

The bridging stitch is also used for gathered elastic shirring. Snap on the buttonhole foot C.

On the wrong side of your fabric draw lines to sew the stitched rows straight.

Place the shirring elastic (elastic thread) around the finger of the presser foot C.



Sew from the wrong side over both lengths of the elastic following marked lines. Gather the shirring by pulling the elastic threads.

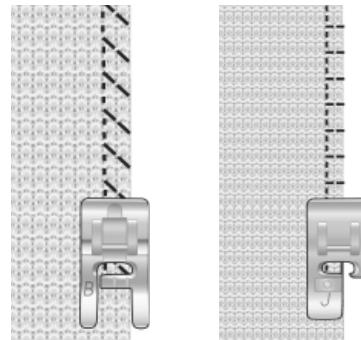
Seam and overcast

Some stitches can be used for seaming and overcasting on the edge where a 5 mm (1/4") seam is allowed. Place the fabric so that the inside right "toe" of the presser foot follows the edge of the fabric.

Overlock is chiefly used for sewing medium and heavy stretch fabric. Snap on presser foot B.

Seam and overcast stitch, may be used to sew light and medium non-stretch fabric and light stretch fabric. Snap on presser foot J.

Presser foot J is also used to overlock and overcast many different fabrics with the exception of heavy, firm fabrics. The pin on the presser



foot should follow the edge of the fabric and will prevent the fabric from puckering. Stitch width 5-6 mm. When using stitch width 4.5 or lower, use presser foot A.



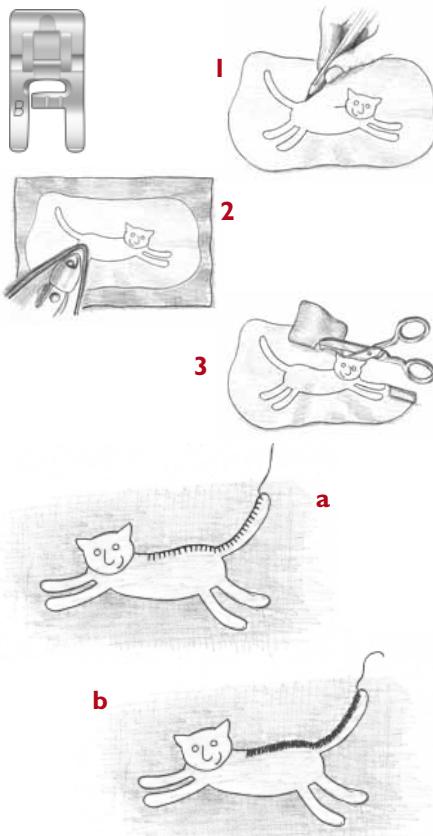
Appliqué

Snap on presser foot B.

- 1 Draw a mirror image of your design on the paper side of the fusible web.
- 2 Iron the fusible web so that it sticks to the wrong side of the appliqué material.
- 3 Cut out the appliqué. Remove the paper layer from the fusible web. Fuse the appliqué to the background material. Place stabilizer under background fabric.

a Sew the hand look appliqué stitch number 11  , around the appliqué.

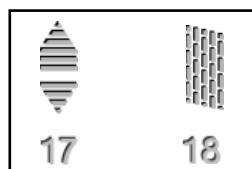
b The satin stitch number 14  , stitch width 2 mm sews beautiful appliqués. Fuse or pin applique in place and satin stitch around the outside edges.



Darning and taper satin stitches

The stitches 17-18 can not be combined but are set individually and automatically. There are stitch memories where the number of stitches, length or width changes are stored.

1. Sew until the stitch has reached the desired length.
2. Touch the  button. The machine completes the stitch.
3. When you have the result you wish, touch **STOP**.
4. The stitch will now repeat in succession and the machine will



stop automatically when the stitch is completed.

If you wish to sew another stitch and then return to your stitch, you only select this stitch and touch **STOP**.

The repeated stitch is retained even if you turn off the machine.

Read more on page 46.



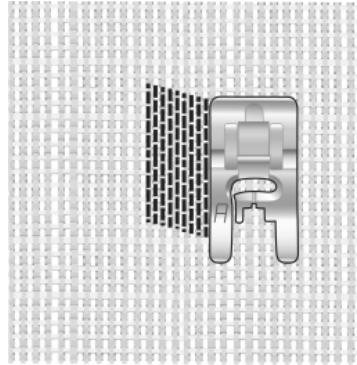
Darning stitch



is a perfect stitch for mending and darning. Use presser foot A.



1. Sew the first row of stitches as long as you need to cover your tear or worn spot.
2. Touch the reverse button  and the machine continues sewing the remaining stitches at the same length and fastens the thread.
3. When the first stitch is finished, touch **STOP** to put into memory. Move the fabric so that the needle is right over the last stitch. Repeat as many times as needed to cover the hole. See "Satin taper and darning stitches" page 45.

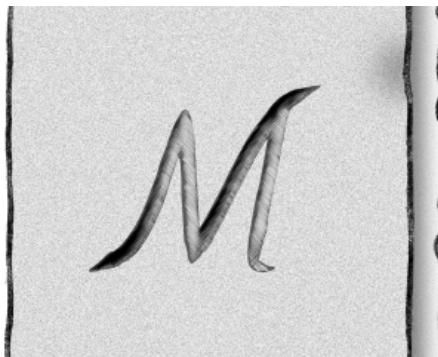


Automatic taper stitch

The tapered satin stitch , is a tapered satin stitch which makes it suitable for sewing monograms and other embellishments. Use presser foot B.



1. Trace the monogram on the fabric and sew over the lines.
2. Select .
3. Sew until the desired length is reached.
4. Touch the reverse button  to taper the end. See "Satin taper and darning stitches" page 45.
5. Touch STOP if you wish to repeat the same stitch with retained length.



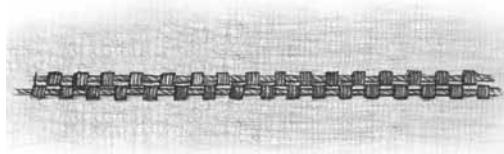


Decorative stitches

These stitches are mainly used as decorative stitches.

Examples:

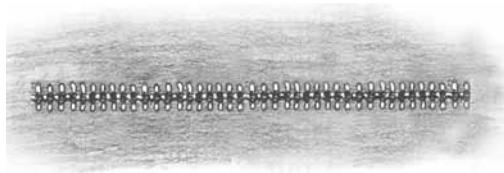
Stitch 16 sewn over yarn gives a decorative effect.



A beautiful scallop edging is sewn with Stitch 15. Sew near the edge and trim close to the stitching.



Using Stitch 13 with an optional wing needle to stitch a hemstitch around your embroidered table cloth.



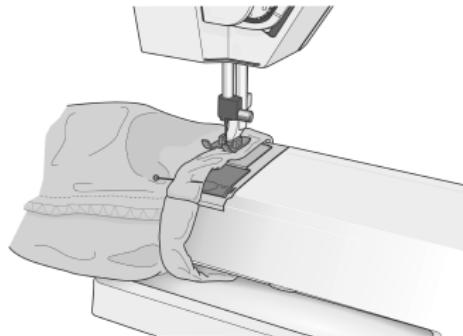


Sewing hints

Free arm

To facilitate sewing trouser legs and sleeve hems use the free arm.

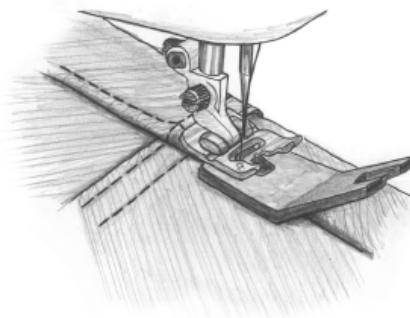
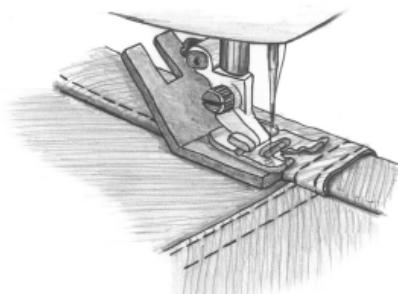
The free arm also allows you to darn socks (the darning foot is an optional accessory).



Jeans hem

When sewing over seams in extra heavy fabric or a blue jeans hem, the foot can tip as the machine climbs over the seam. The needle can hit the tipped foot and break. In this case, use the clearance plate to balance the height of the hem as you sew.

Place the clearance plate behind the foot as you approach the hem and in front of the foot as you sew over the hem thickness. Remove the clearance plate before sewing in to it.

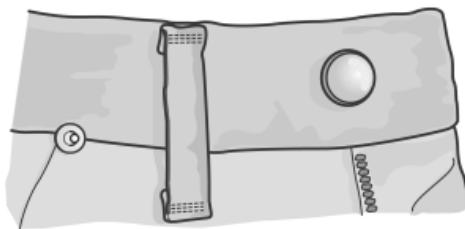


Sewing on belt loops

Use presser foot B and lower the feed teeth. Fold in about 1 cm on the short ends. Place the belt loop on the garment and under the presser foot. Set a wide zigzag stitch.

Sew a bartack from the outer edge to the center of the loop, move the material and sew a new bartack.

Continue to sew along the loop's short side.



CARE OF YOUR SCANDINAVIA 300





Changing the light bulb

Only use light bulbs of a type as indicated on the front of the machine (12V, 5W). They are available at your authorized Husqvarna Viking dealer.



Turn off the main switch.

- 1 Place the light bulb remover with the deep hole, marked OUT, around the bulb. Do not turn the bulb, just pull it out to remove it.
- 2 When inserting a new light bulb place the remover with the shallow hole, marked IN, around the new bulb. Insert the new bulb by pushing it up.





Care of the Machine

To keep your sewing machine operating well, clean it often. No lubrication (oiling) is needed.

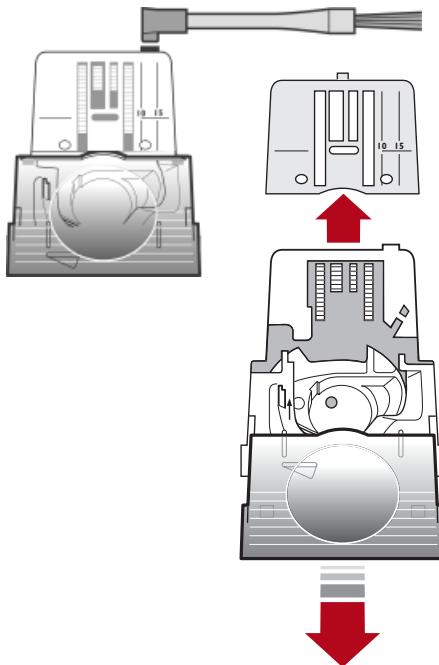
! Turn off the main switch.

Cleaning

Wipe the exterior surfaces of your Scandinavia 300 with a soft cloth to remove any dust or lint built up.

Clean the Bobbin Area

Remove the presser foot and slide off the bobbin cover. Lower the feed teeth. Place the stitch plate opener on the brush, and then in the recess at the rear of the stitch plate. Turn toward you to pop off the stitch plate. Clean the feed teeth with the brush.

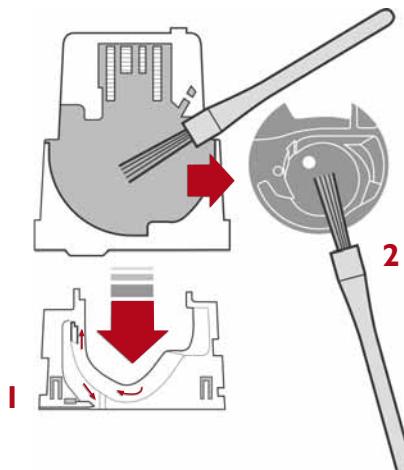


Cleaning Under the Bobbin Area

When lint builds up, the area under the bobbin case must be cleaned.

Remove the bobbin case holder (1) covering the front part of the bobbin case (2). Remove the bobbin case by lifting it up. Clean with the brush.

Replace the bobbin case and the bobbin case holder.



Replacing the Stitch Plate

With feed teeth down, place the stitch plate about 5 mm in front of the rear edge and push it back. Slide on the bobbin cover. Raise the feed teeth.



Trouble shooting

Always start by checking the needle

Always start with a new needle as soon as you discover that a stitch is not what you expected. Test sew on a scrap of the fabric you are sewing. Check that you have chosen the correct needle and see that it is correctly inserted. See page 12.

Unattractive stitches

The thread tension is not correct. See page 10. Make sure that the thread is not catching. Certain thread spools are unsuitable for spooling from the horizontal spool pin. Try instead with the vertical spool pin.

The machine may be incorrectly threaded. Be sure to place spool holders correctly.

The correct threading is shown on page 6.

Wrong bobbin thread. It should be of the same thickness as the upper thread except for embroidery.

The needle breaks

The needle can strike against stitch plate and break. Change the needle. See page 12.

The upper thread breaks

Check the thread spool to see that it has not caught in any way.

The needle eye may have sharp edges which cut the thread. If so, change the needle. See page 12.

The upper thread is incorrectly threaded. See page 6.

The upper thread may have too much tension. Refer to page 10.

The hole in the stitch plate may be chipped and have sharp edges. We recommend that you replace it.

The bobbin thread breaks

The bobbin thread may be incorrectly threaded. See page 9.

The stitch plate hole is damaged. See "Upper thread breaks".

Irregular thread tension

This may be due to poor quality thread. When sewing with cotton thread, increase the thread tension. See page 10.

Irregular bobbin winding

The machine is not correctly threaded for bobbin winding. See page 8.

The fabric puckers

The upper thread tension is too tight. See page 10 for correct thread tension.

Use the correct presser foot as recommended by the Infodisplay.

The machine does not feed the fabric

The stitch length is too short. Increase stitch length.

The feed teeth may be lowered. Raise them by turning the dial to **▲▲**. See page 12.

The feed teeth are full of dust and dirt. Clean with the brush. See page 51.



The stitch is too loose - fabric layers not held together

The thread tension is far too loose. Page 10 shows how to adjust the thread tension.

Incorrect stitch

If the machine does not sew the stitch indicated by the Infodisplay, it is possible that the electronics have been disturbed in some way, perhaps by a short power cut or electrical disturbance. Shut off the main switch, wait a few seconds and try again. If the fault remains, contact your dealer.

Machine runs sluggishly

Dirt or lint has built up under the stitch plate. Loosen the plate and brush clean between the feed teeth and in the bottom area. See page 51.

Main motor does not work

The electronic overload protector may have switched off. Shut off the main switch, wait about a minute. Then turn the machine back on.

Balance setting for buttonhole

Balance can only be set if a buttonhole is selected. Press the buttons  and  until the letters **BAL** are indicated to the left on the Infodisplay. Instead of the stitch length indication, a balance indication is now shown. When you wish to increase the density of the right column, press stitch length button (-). When you wish to decrease the density, press stitch length button (+).

The balance can be set between -5 to +5. The balance indication on the Infodisplay will change in steps with each touch. When you select another stitch, the display goes back to show the stitch length indication. The machine always retains the last balance setting that has been made.

The sewing and embroidery machine screen does not respond to touch

The socket on the back of the machine where the embroidery unit is connected can be sensitive to static electricity when the embroidery unit is not connected. If the sewing machine screen does not respond to touch, turn the machine off and back on again. If this persists, contact your authorized Husqvarna Viking retailer.

Expert assistance

Have your machine "tuned up" regularly by your dealer. If you have followed the preceding points and still do not get satisfactory results, you should contact the dealership where you bought the machine. When the machine is being checked, it is a great help if it can be test sewn under as similar conditions as possible as when you used it.

Remember to take a sewing sample along with you, preferably of the fabric and with the thread you intend to use. A sewing sample will often give much better information than words.

Non-original parts and accessories

The warranty does not cover any defect or damage caused by use of non-original accessories or parts.



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We reserve the right to change the machine equipment and the assortment of accessories without prior notice, or make modifications to the performance or design.

Such modifications, however, will always be to the benefit of the user and the product.



Please note that on disposal, this product must be safely recycled in accordance with relevant National legislation relating to electrical/ electronic products. If in doubt please contact your retailer for guidance



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